

## Category

Electronic Devices and System

## Solution

Higher sensitivity, consistent repeatability, and precise saturable absorber laser are all features of our invention.

## Technology & Applications

The present invention provides a method for manufacturing graphene-based saturable absorber comprising steps of preparing graphene-polymer nanocomposite through liquid phase exfoliation; fabricating of adiabatic microfiber ;identifying transmission loss in the adiabatic microfiber; depositing graphene and polydimethylsiloxane nanocomposite on adiabatic microfiber; packaging of deposited microfiber as a graphene-based saturable absorber; and analyzing and testing of the graphene-based saturable absorber.

## Advantages

The developed PoC Graphene-based saturable absorber for ultrashort pulse fiber lasers passed the sensitivity, repeatability and accuracy test.

## Intellectual Property

Patent: PI2020003646

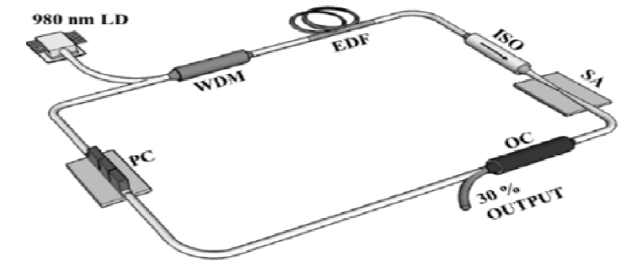
## Inventors

Mohd Adzir Mahdi, Ng Eng Khoon, Norita Mohd Yusoff, Lau Kuen Yao, Lee Han Kee, Yasmin Mustapha Kamil and Nadiah Hussein Zainol Abidin

## Technology Partner

Inlazer Dynamics Sdn. Bhd.

## Gallery



## Contact Us!

[bdo@nanomalaysia.com.my](mailto:bdo@nanomalaysia.com.my)